

## Assignment

Your mission will be to develop a Web API service (such as a task management system or webhook handler) using Python. This project aims to evaluate your skills in architecture design, database design, and exception handling.

Write your code to model the data and store it in a local database. Then, use Python to build a web API that queries this data. A basic API design for this assignment would return all available tasks or webhook events, allowing filtering by one or more categories (e.g., task status, event type). You are encouraged to improve and refine this design, which will give us insight into how you approach designing an API that you and your team members will use in the future.

This is an open-ended question. There are many design considerations to make, such as what query patterns to support and how to index when the dataset becomes large.

**Note:** If you are running out of time, you can provide a doc to outline how you would have done things differently if given more time.

## Evaluation Criteria

We will use this project as the basis for evaluating your skill as a developer as it relates to our tech stack and our team.

While we'll be gathering as much data as we can from your implementation, our evaluation will focus on these core concepts:

- **Solution Integrity:** Is your solution complete and functional?
- **Design:** What choices did you make regarding functionality, readability, maintainability, extendability, and did you appropriately utilize Python features?
- **Testability:** Have you considered how you'd test your code?
- **Documentation:** Have you provided context for decisions and assumptions that you've made?